

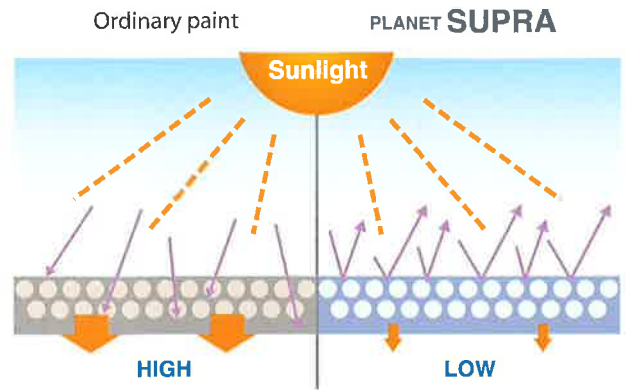
PLANET SUPRA

HIGHLY efficient thermal barrier coating,

with 94.6% reflection rate in the near-infrared wavelength band which serves to reduce electricity consumption and CO₂ emissions.

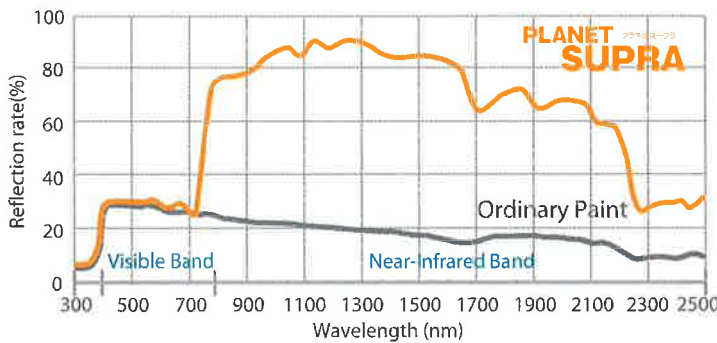
PLANET SUPRA has the ability to efficiently reflect solar radiation to reduce cooling load on buildings.

Mechanics of THERMAL BARRIER COATING



HIGH REFLECTION

Coating reflectivity and temperature decrease



All wavelength band

92.3%
Reflection

Near-infrared rays area

94.6%
Reflection

To prevent heat load by upgrading reflection rate of near infrared rays which is the main cause of temperature increase in buildings.

KEY TEST RESULTS

PLANET SUPRA is water-based and virtually VOC free and contains no hazardous materials, making it completely environmentally safe.

Test Item	Test result	Test standards
Acid Resistance	Pass	There shall be free from aberration on paint surface after immersing it in 5% of sulfuric acid solution for 7 days.
Resistibility Test for Alkalescency	Pass	There shall be free from aberration on paint surface after immersing it in saturated calcium hydroxide solution for 30 days.
Accelerated Weathering Resistance	Pass	There shall be free from remarkable difference of color compared with sample color after being exposed for 1000 hours.
Resistibility Test for Salt water	Pass	There shall be free from rust, crazing, peeling and blister in resistibility test of solwater sprayability for 1000 hours.
Formaldehyde Diffusion Test	F☆☆☆☆	Diffusion speed shall be under 1.0 µg from paint surface, 7days after application.
Volatile Organic Compound Diffusion Test	Pass	Diffusion speed shall be under 1.0 µg from paint surface 8days after application.
Resistance to Mold Test	Pass	There shall be free from mycelium growth after 7 days incubation.
Resistance Test for cold temperature repetition	Pass	There shall be free from significant change such as crazing, peeling and blister after 10 cycle of cold temperature repetition.
Resistibility for Cleaning Test	Pass	There shall be free from exposure of base material by peeling or attrition after 500 times washing.
Resistibility Test for Impact Shock	Pass	There shall be free from crazing, remarkable deformation and peeling when spherical weight.
Adherence Strength Test	Pass	Adherence strength measured by maximum pull loading toward vertical direction.
Degree of Hardness for Scratch	B	Hardness measurement by pencil scratch method.

PARTNERSHIPS MASDAR

Established in April 2006, Masdar (The Abu Dhabi Future Energy Company) is a multi-faceted company advancing the development, commercialisation and deployment of renewable energy solutions and clean technologies.

Masdar works with global partners and institutions to integrate new research with proven technologies to produce efficient systems and processes that can be replicated globally.

Planet Supra has been certified by Masdar and included on the highly selective sustainable products list.

Planet Supra information is now available on the MASDAR "Future Build" web site.

PLANET SUPRA SIMULATION

4500m² Roof → Electricity and CO₂ Reduction

PLANET SUPRA has been found to reduce CO₂ emissions and electricity consumption by 54%.

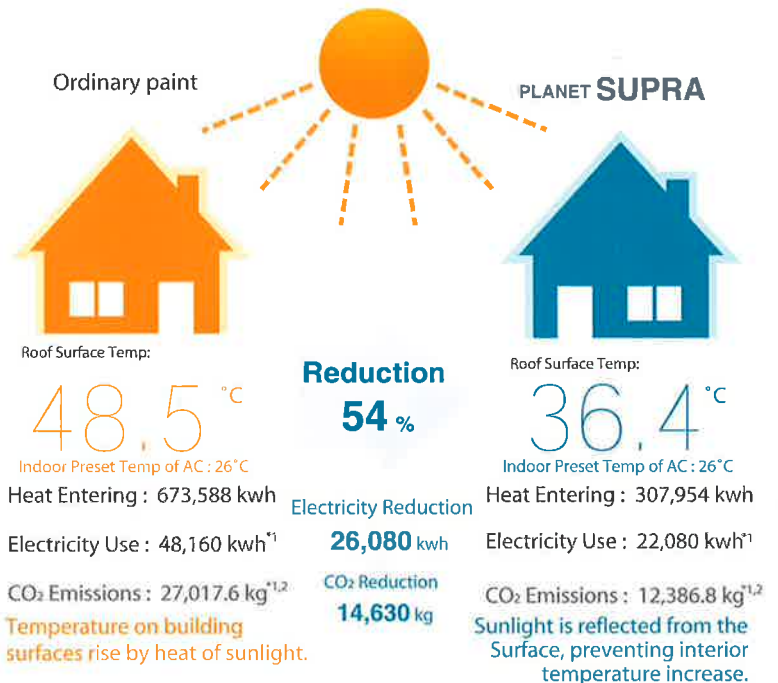
Why use Ordinary paint?

**USE SUPRA
SAVE YOUR
ELECTRICITY
EXPENSE!!**



Conditions of Base Material and Setting on Factory Roof Coated with PLANET SUPRA

Time Period: 1 month (20 days)
Data is from an actual pilot test (4500m² coated)
Two coats of PLANET SUPRA were applied
Roof Material: Corrugated Roof
Preset Temp of AC: 26 °C
AC operating time: 8hrs / day (9:00 - 17:00)



*1 These figures are measured per month. Assumes 8 hours a day and 20 days per month.

*2 Ministry of the Environment Government of Japan (announced on Dec. 27, 2010) CO₂ emission by electric utilities (FY 2009) Alternate value: 0.000561 (t-CO₂/kWh)

CARBON OFFSET

PLANET SUPRA and NEO are first Carbon Offset products in Japanese paint industry.

Sci-paint Japan donates the right of carbon emission to CO₂ Emission reduction projects via Carbon Offset Japan (COJ).

10 cans of PLANET SUPRA or NEO offset 1,000 kg of carbon emissions.

Carbon Offset certificate.

Carbon Offset certification will be issued to the customers who use PLANET SUPRA and NEO.

It can easily be used for CSR purposes.

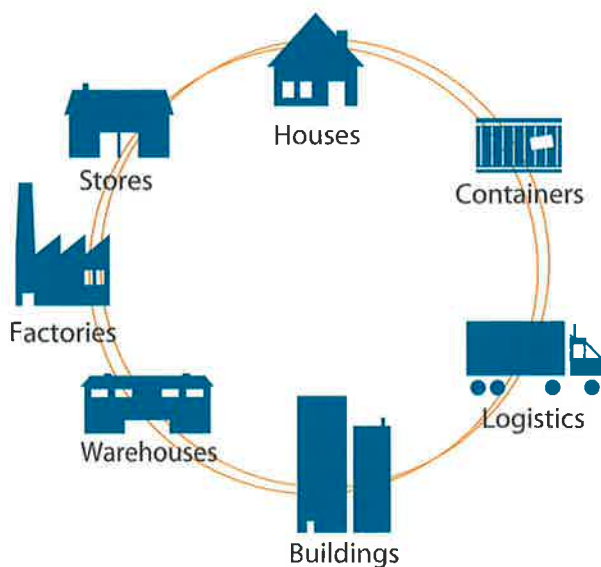


PARTNERSHIPS CLINTON FOUNDATION

The William J. Clinton Foundation launched the Clinton Climate Initiative ("CCI") to create and advance solutions to the core issues driving climate change. CCI takes a holistic approach, addressing the major sources of greenhouse gas emissions and the people, policies, and practices that impact. CCI admits Planet Supra as efficient environmental product for the first time in seven years.

The end goal is to catalyze the uptake of Planet Supra for use as a roofing technology and to create success stories out of jointly developed energy efficiency projects which will be disseminated worldwide.

APPLICATION EXAMPLES



PRODUCT LINE UP



PLANET SUPRA

White + 22 colors - Matte finish

Quick drying time.

Strong degree of adhesion & anti mold properties.



PLANET SUPRA NEO

White & Light gray - Gloss finish

Glossy finish for improved aesthetics exhibits.

Anti Mold and Anti Algae proof.

Upgrading of antifouling performance.



Formaldehyde Diffusion

F☆☆☆☆



CONTACT INFORMATION



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CARBON OFFSET JAPAN 当社はカーボン・オフセットという手段で地球温暖化防止に取り組むCOJ会員です

REASONS TO CHOOSE PLANET SUPRA

1 Unmatched Quality

State of the art manufacturing facility.
Certified by Japan Industrial Standards.
Four Star environmental Formaldehyde Diffusion rating.
Highest rating possible for any coating product in Japan.

2 High reflection rate

With 94.6% of high reflection rate in near infrared rays.
PLANET SUPRA can reflect sunlight before it will become heat source.

3 Energy and Cost Savings

Energy savings of up to 50% with an average saving of between 30%-35%.
Ancillary value creation Boost Labor Productivity!

4 Water Based

PLANET SUPRA is Water-Based, Non-Toxic coating material and low VOC levels and safe to use for interior surfaces too.

5 Boost Corporate Profile

Increase brand value by exhibiting corporate social responsibility. Lower CO2 emissions generates LEED certification points.

6 Easy Application

Apply PLANET SUPRA like regular paint by using a roller, a brush or a spray gun.
Savings in materials, time and labor.

7 Sound Insulation

PLANET SUPRA can dramatically reduce rain sound, if applied on steel surface.